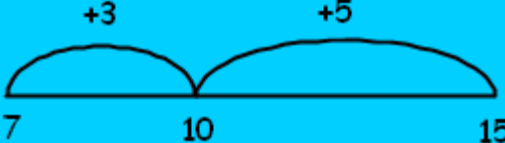
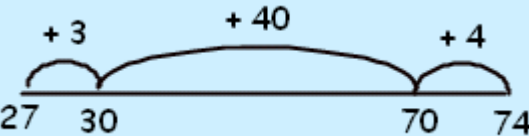
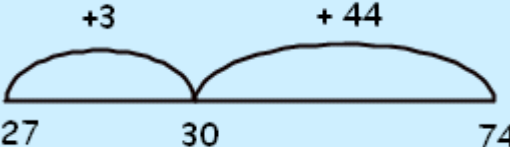
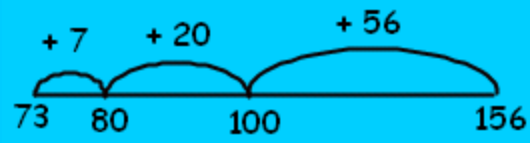


Albury Primary School
 Calculation Policy
 Subtraction

At the beginning of the year consolidate methods from previous year group.

Year Group	Method
R	See mental calculation guidance.
1	<p>Using an empty number line to solve 2 digit subtract 1 digit numbers. Reinforcing subtracting means finding the difference and can be done by counting up. e.g. $15 - 7$</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> $3 + 5 = 8$ </div> </div>
2	<p>Consolidate year 1 e.g. $74 - 27$</p> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 20px;">  <div style="margin-left: 20px;"> $40 + 3 + 4 = 47$ </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 20px;">  <div style="margin-left: 20px;"> $3 + 44 = 47$ </div> </div> <p>Demonstrating column method using counting up where appropriate.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> $\begin{array}{r} 74 \\ - 27 \\ \hline 3 \end{array}$ <p>→ 30</p> $\begin{array}{r} 3 \\ + 40 \\ \hline 4 \end{array}$ <p>→ 74</p> $\begin{array}{r} 4 \\ \hline 47 \end{array}$ </div> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 74 \\ - 27 \\ \hline 3 \end{array}$ <p>→ 30</p> $\begin{array}{r} 3 \\ + 44 \\ \hline 47 \end{array}$ </div> </div>

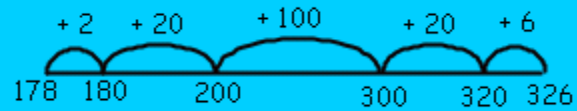
3 digit numbers subtract 2 digit numbers.
e.g. $156 - 73$



$$\begin{array}{r} 156 \\ - 73 \\ \hline 7 \longrightarrow 80 \\ + 20 \longrightarrow 100 \\ \hline 56 \longrightarrow 156 \\ + 13 \\ + 70 \\ \hline 83 \end{array}$$

e.g. $326 - 178$

3



$$\begin{array}{r} 326 \\ - 178 \\ \hline 2 \longrightarrow 180 \\ + 20 \longrightarrow 200 \\ 100 \longrightarrow 300 \\ 20 \longrightarrow 320 \\ 6 \longrightarrow 326 \\ \hline 148 \end{array}$$

Consolidate year 3 methods.

e.g. $74 - 37$

$$\begin{array}{r} 700 + 40 + 8 \\ - \quad \quad 30 + 7 \\ \hline 700 + 10 + 1 = 711 \end{array}$$

Move onto 3 digit numbers subtract 3 digit numbers with no borrowing.

e.g. $767 - 341$

$$\begin{array}{r} 700 + 60 + 7 \\ - 300 + 40 + 1 \\ \hline 400 + 20 + 6 = 426 \end{array}$$

(Use this to demonstrate, remember most children will be able to calculate this mentally and should be allowed to do so).

Introduce borrowing.

e.g. $761 - 347$

$$\begin{array}{r} 700 + 60 + 1 \\ - 300 + 40 + 7 \\ \hline 700 + 50 + 11 \\ - 300 + 40 + 7 \\ \hline 400 + 10 + 4 = 414 \end{array}$$

This method can also be used for 2 borrows, however demonstrate to children that counting up is more efficient. (Or demonstrate on a blank number line).

e.g. $641 - 368$

$$\begin{array}{r} 600 + 40 + 1 \\ - 300 + 60 + 8 \\ \hline 600 + 30 + 11 \\ - 300 + 60 + 8 \\ \hline 500 + 130 + 11 \\ - 300 + 60 + 8 \\ \hline 200 + 70 + 3 = 273 \end{array}$$

$$\begin{array}{r} 641 \\ - 368 \\ \hline 2 \longrightarrow 370 \\ 30 \longrightarrow 400 \\ 200 \longrightarrow 600 \\ 41 \longrightarrow 641 \\ \hline 273 \end{array}$$

Working with 3 digit subtract 3 digit numbers, including decimals up to 2 decimal places. Working towards compact method.

e.g. $563 - 271$

$$\begin{array}{r} 500 + 60 + 3 \\ - 200 + 70 + 1 \\ \hline 400 + 160 + 3 \\ 200 + 70 + 1 \\ \hline 200 + 90 + 2 = 292 \end{array}$$

$$\begin{array}{r} \\ \\ - 271 \\ \hline 292 \end{array}$$

Partitioning method can be used where there are 2 borrows however the counting up method is more efficient. (See below)

5

e.g. $563 - 278$

$$\begin{array}{r} \\ 400 \\ - 500 + 60 + 3 \\ - 200 + 70 + 8 \\ \hline 200 + 80 + 5 = 285 \end{array}$$

$$\begin{array}{r} \\ \\ - 278 \\ \hline 285 \end{array}$$

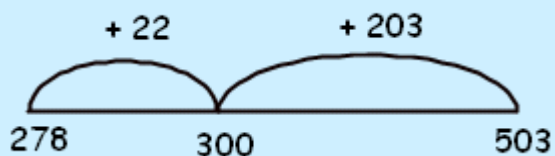
$$\begin{array}{r} 563 \\ - 278 \\ \hline 22 \longrightarrow 300 \\ + 200 \longrightarrow 500 \\ 63 \longrightarrow 563 \\ \hline 285 \end{array}$$

Consolidating methods taught previously. Reinforcing with children that the method used depends on the calculation.

e.g. $503 - 278$

6

$$\begin{array}{r} \\ \\ - 503 \\ - 278 \\ \hline 225 \end{array}$$



$$203 + 22 = 225$$

- The counting up method can be used with decimals when up to no more than 3 columns are needed.